



294-32 DIVII-CON.ST25
SEQUENCE LISTING

#4

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AI

<110> Aerts, Johannes Maria F.G.

<120> A human chitinase, its recombinant production, its use for decomposing chitin, its use in therapy or prophylaxis against infectious diseases.

<130> Docket 294-32 DIVII/CON

<140> 09/997,827

<141> 2001-10-15

<160> 17

<170> PatentIn version 3.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Degenerate sense oligonucleotide

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<221> misc_feature

<222> (12)..(12)

<223> N may be any nucleotide

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<210> 2

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<212> DNA

<213> Artificial Sequence

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<223> Degenerate anti-sense nucleotide

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<221> misc_feature

<222> (7)..(16)

<223> N represents inosine

<400> 2

ccartcnarr tynacncrt craa

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<210> 3

<211> 1643

<212> DNA

<213> Homo sapiens

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gccttcgctg gcatgaccaa ccaccagctg agcaccactg agtggaatga cgagactctc	240
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ggaggctgga atttcggcac tcagaagttc acagatatgg tagccacggc caacaaccgt	360
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tcttgggaga aggtcacggg acataacagc cccctctaca agaggcaaga agagagtggg	720
gcagcagcca gcctcaacgt ggatgctgct gtgcaacagt ggctgcagaa ggggacctc	780
gccagcaagc tgatccttgg catgcctacc tacggacgct ccttcacact ggcctcctca	840
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<211> 466

<212> PRT

<213> Homo sapiens

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Gln Tyr Arg Gln Gly Glu Ala Arg Phe Leu Pro Lys Asp Leu Asp Pro
35 40 45

Ser Leu Cys Thr His Leu Ile Tyr Ala Phe Ala Gly Met Thr Asn His
50 55 60

Gln Leu Ser Thr Thr Glu Trp Asn Asp Glu Thr Leu Tyr Gln Glu Phe
65 70 75 80

Asn Gly Leu Lys Lys Met Asn Pro Lys Leu Lys Thr Leu Leu Ala Ile
85 90 95

Gly Gly Trp Asn Phe Gly Thr Gln Lys Phe Thr Asp Met Val Ala Thr

Ala Asn Asn Arg Gln Thr Phe Val Asn Ser Ala Ile Arg Phe Leu Arg
115 120 125

Lys Tyr Ser Phe Asp Gly Leu Asp Leu Asp Trp Glu Tyr Pro Gly Ser
130 135 140

Gln Gly Ser Pro Ala Val Asp Lys Glu Arg Phe Thr Thr Leu Val Gln
145 150 155 160

Asp Leu Ala Asn Ala Phe Gln Gln Glu Ala Gln Thr Ser Gly Lys Glu
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Arg Leu Leu Leu Ser Ala Ala Val Pro Ala Gly Gln Thr Tyr Val Asp
180 185 190

Ala Gly Tyr Glu Val Asp Lys Ile Ala Gln Asn Leu Asp Phe Val Asn
195 200 205

Leu Met Ala Tyr Asp Phe His Gly Ser Trp Glu Lys Val Thr Gly His
210 215 220

Asn Ser Pro Leu Tyr Lys Arg Gln Glu Glu Ser Gly Ala Ala Ala Ser
225 230 235 240

Leu Asn Val Asp Ala Ala Val Gln Gln Trp Leu Gln Lys Gly Thr Pro
245 250 255

Ala Ser Lys Leu Ile Leu Gly Met Pro Thr Tyr Gly Arg Ser Phe Thr
260 265 270

Leu Ala Ser Ser Ser Asp Thr Arg Val Gly Ala Pro Ala Thr Gly Ser
275 280 285

Gly Thr Pro Gly Pro Phe Thr Lys Glu Gly Gly Met Leu Ala Tyr Tyr
290 295 300

Glu Val Cys Ser Trp Lys Gly Ala Thr Lys Gln Arg Ile Gln Asp Gln
305 310 315 320

Lys Val Pro Tyr Ile Phe Arg Asp Asn Gln Trp Val Gly Phe Asp Asp
325 330 335

Val Glu Ser Phe Lys Thr Lys Val Ser Tyr Leu Lys Gln Lys Gly Leu
340 345 350

Gly Gly Ala Met Val Trp Ala Leu Asp Leu Asp Asp Phe Ala Gly Phe

355

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360 365

Ser Cys Asn Gln Gly Arg Tyr Pro Leu Ile Gln Thr Leu Arg Gln Glu
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Leu Ser Leu Pro Tyr Leu Pro Ser Gly Thr Pro Glu Leu Glu Val Pro
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Lys Pro Gly Gln Pro Ser Glu Pro Glu His Gly Pro Ser Pro Gly Gln
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Asp Thr Phe Cys Gln Gly Lys Ala Asp Gly Leu Tyr Pro Asn Pro Arg
420 425 430

Glu Arg Ser Ser Phe Tyr Ser Cys Ala Ala Gly Arg Leu Phe Gln Gln
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Ser Cys Pro Thr Gly Leu Val Phe Ser Asn Ser Cys Lys Cys Cys Thr
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Trp Asn
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<210> 5

<211> 1713

<212> DNA

<213> Homo sapiens

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gccttcgctg gcatgaccaa ccaccagctg agcaccactg agtggaatga cgagactctc	240
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 gccagcaagc tgatccttgg catgcctacc tacggacgct ccttcacact ggcctcctca 840
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<211> 387

<212> PRT

<213> Homo sapiens

<400> 6

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 20 25 30

Gln Tyr Arg Gln Gly Glu Ala Arg Phe Leu Pro Lys Asp Leu Asp Pro
 35 40 45

Ser Leu Cys Thr His Leu Ile Tyr Ala Phe Ala Gly Met Thr Asn His
 50 55 60

294-32 DIVII-CON.ST25

Gln Leu Ser Thr Thr Glu Trp Asn Asp Glu Thr Leu Tyr Gln Glu Phe
65 70 75 80

Asn Gly Leu Lys Lys Met Asn Pro Lys Leu Lys Thr Leu Leu Ala Ile
85 90 95

Gly Gly Trp Asn Phe Gly Thr Gln Lys Phe Thr Asp Met Val Ala Thr
100 105 110

Ala Asn Asn Arg Gln Thr Phe Val Asn Ser Ala Ile Arg Phe Leu Arg
115 120 125

Lys Tyr Ser Phe Asp Gly Leu Asp Leu Asp Trp Glu Tyr Pro Gly Ser
130 135 140

Gln Gly Ser Pro Ala Val Asp Lys Glu Arg Phe Thr Thr Leu Val Gln
145 150 155 160

Asp Leu Ala Asn Ala Phe Gln Gln Glu Ala Gln Thr Ser Gly Lys Glu
165 170 175

Arg Leu Leu Leu Ser Ala Ala Val Pro Ala Gly Gln Thr Tyr Val Asp
180 185 190

Ala Gly Tyr Glu Val Asp Lys Ile Ala Gln Asn Leu Asp Phe Val Asn
195 200 205

Leu Met Ala Tyr Asp Phe His Gly Ser Trp Glu Lys Val Thr Gly His
210 215 220

Asn Ser Pro Leu Tyr Lys Arg Gln Glu Glu Ser Gly Ala Ala Ala Ser
225 230 235 240

Leu Asn Val Asp Ala Ala Val Gln Gln Trp Leu Gln Lys Gly Thr Pro
245 250 255

Ala Ser Lys Leu Ile Leu Gly Met Pro Thr Tyr Gly Arg Ser Phe Thr
260 265 270

Leu Ala Ser Ser Ser Asp Thr Arg Val Gly Ala Pro Ala Thr Gly Ser
275 280 285

Gly Thr Pro Gly Pro Phe Thr Lys Glu Gly Gly Met Leu Ala Tyr Tyr
290 295 300

Glu Val Cys Ser Trp Lys Gly Ala Thr Lys Gln Arg Ile Gln Asp Gln
305 310 315 320

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Lys Val Pro Tyr Ile Phe Arg Asp Asn Gln Trp Val Gly Phe Asp Asp
 325 330 335

Val Glu Ser Phe Lys Thr Lys Val Ser Tyr Leu Lys Gln Lys Gly Leu
 340 345 350

Gly Gly Ala Met Val Trp Ala Leu Asp Leu Asp Asp Phe Ala Gly Phe
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Ser Cys Asn Gln Gly Arg Tyr Pro Leu Ile Gln Thr Leu Arg Gln Glu
 370 375 380

Leu Asn Gly
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<210> 7

<211> 11

<212> PRT

<213> Homo sapiens

<400> 7

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 1 5 10

<210> 8

<211> 11

<212> PRT

<213> Autographa californica

<400> 8

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<210> 9

<211> 11

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<213> Manduca sexta

<400> 9

294-32 DIVII-CON.ST25

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<210> 12

<211> 11

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<213> Homo sapiens

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<213> Mus musculus

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294-32 DIVII-CON.ST25

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<210> 14

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<212> PRT

<213> Aphanocladium album

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<213> Trichoderma harzianum

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<213> Bacillus circulans

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Phe Asp Gly Val Asp Leu Asp Trp Glu Tyr Pro
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<213> Nicotiana tabacum class v

<400> 17

AI
CONT

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